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SOURCE Research Report on Manganese Deposits in the Vicinity Ching-lo Haien, Shansi Province, Research Bureau, Worth Company (FIR Ho 25)841). Information requested.)

REPORT ON MANGAMESE DEPOSITE IN THE VICINITY OF REI-MA-FANC-CHEN, CHING-IQ ESIEN, SHANSI PROVINCE

Location and Accessibility

Hei-ma-feng-chem is a small village 20 kilometers northwest of Ching-lo (38 23 N, 111 52 E). Heim (38 23 N, 112 45 E), which is about E_0000 bilometers east of Ching-lo, on the T'ung-P'u Railway (Ta-t'ung -- P'u-shou Line) is the nearest railroad station. The road from the station to Ching-lo is steep and crooked, and is flooded after a rain. The road between Ching-lo and Hai-mafang-ohen is not steep, but becomes flooded after a rain.

Manganese deposits are found at Wen-ya-kou and Ta-11-kou, which are located 1 kilometer and 2 kilometers respectively west of Hai-ma-fung-chem.

Geological Data

Ching-lo is in a small basin at the junction of the Fen Ho and Has PRINGE ohen Ch'uan. The Ma-fang-ohen Ch'uan flows southeast from the border of R'o-lar Meien. In the vicinity of Hei-ma-fang-ohen, it crosses a small mountain range. where manganese deposits are found.

A large strike of reversed fault extends northeast - southwest passing through Hai-ma-fang-chen. The southwestern section belongs to the Tringsic Period of the Mesosoic Era, while the northeastern section belongs to the Sinian Series, which is composed of the following six seems in the order from the top:

- Spotted chlorite achist
- Phyllite and schistose sandstone
- 6. Phyllite and sandstone
- d. Efficiencent sandstone (containing mangamese deposits)
- Siliceous sandstone
- f. Grayish limestone, chlorite phyllite, and mark

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Outcrops are found in the areas east of the Ma-fang-chen Ch'uan. Generally speaking, the strike runs northeast and the dip is 20-40 degrees northwest.

The geological structure of the areas west of the river is similar to that of the areas east of the river, except that there are many faults. The strike generally runs northeast and the dip is 20-40 degrees northwest.

In the southeastern area, the strike generally runs 50 degrees north and the dip is 50 degrees northwest.

3. Deposits

Manganese deposits are found in the efflorescent sandstone sears. The thickness of the seams in Wen-ya-kou is about 40 centimeters and pebbles containing manganese are also found about one meter above the efflorescent sandstone seams. In the Ta-li-kou area, the thickness of the seams is about 60 centimeters.

4. Estimated Reserve

The estimated deposits of manganese are as follows (in metric tone):

Locality	ocality Liberal Estimate			Estimate	Conservative Estimate				
Wen-ya-kou	6,800				5,200				
Ta-li-kou		<i>4,</i> 300				4,600			
Total		16,100				9,800			
5. Grade (in	n percent))							
Spesimen	<u> 140</u>	<u>7•</u>	8102	P	<u>8</u>	CaO	Sp Cr		
No 1	37.7	0.84	21.17	0.046	0.054	G.75	3.511		
5	45.15	1.12	19.20	0.043	0.351	C.14	4.356		
3	36.61	0.98	20.48	0.033	0.337	0.17	4.457		
4	43.09	0.98	2.77	0.065	0.071	0.05	5.909		
5	48.73	1.26	5 .51	ď. <u>0</u> 54	0.067	0103	4.280		
6	21.51	1.40	43.08	0.043	0.080	0.01	3.318		

Source: Research Bureau, Morth China Development Company

The average mangamese content is approximately 41 percent.

6. Present Status

According to the natives, manganese deposits in this area had been mixed a long time ago, but there is no trace of abandoned mines. It is believed that deposits are also found at various places in the area between Hing-wu (38 59 Rg 112 17 E) and Lan (38 17 H, 111 33 E), but because of the poor transportation facilities in this area, the deposits have not been investigated.

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